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मानक

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IS 12703 (1989): Forestry Tools - Tree Marking Hammers [FAD
21: Farm Implements and Machinery]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

**FORESTRY TOOLS — TREE MARKING
HAMMERS — SPECIFICATION**

भारतीय मानक

वानिकी औजार — वृक्ष अंकन हथौड़ा — विशिष्ट

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FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards on 24 May 1989, after the draft finalized by the Forestry and Plantation Machinery Sectional Committee had been approved by the Agricultural and Food Products Division Council.

Marking hammers are hand tools used by the foresters for marking on green trees in the forest. For marking, the bark is removed from a portion of the tree and then the marking hammer is struck with an impact action which creates impression on the trees for identification.

This standard has been prepared based on the manufacturing practices prevailing in the country.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

FORESTRY TOOLS — TREE MARKING HAMMERS — SPECIFICATION

1 SCOPE

1.1 This standard specifies the material, dimensions and other requirements for marking hammers used by foresters for marking on green trees in the forest.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
2102 (Part 1) : 1980	General tolerances for dimensions and form and position : Part 1 General tolerances for linear and angular dimensions (<i>second revision</i>)
IS 2500 (Part 1) : 1983	Sampling inspection tables : Part 1 Inspection by attributes and count of defects (<i>first revision</i>)

3 MATERIALS

3.1 Hammers

Shall be manufactured from mild steel.

3.2 Handle

Seasoned hard wood shall be used.

4 HARDNESS

4.1 The bottom portion of the hammer up to a height of 5 to 8 mm shall be hardened by chemical heat treatment (cyaniding) so that the engraved letters attain a hardness of 40 ± 2 HRC.

5 SHAPE AND DIMENSIONS

5.1 Unless otherwise agreed to between the purchaser and the supplier, the shape and dimensions of the marking hammer shall be as given in Fig. 1.

5.2 The tolerances for various dimensions shall be of very coarse class as specified in IS 2102 (Part 1) : 1980.

6 OTHER REQUIREMENTS

6.1 The characters of the marking hammers shall be machine engraved with double taper.

6.2 The depth of engraving shall be not less than 5 mm.

6.3 The apex angle of the character shall be 60 degrees up to a height of 2 mm and afterwards, a suitable taper shall be provided up to the base.

6.4 The size of the letters shall vary depending upon the size of hammer and the text to be engraved.

6.5 The body of the marking hammer shall be manufactured by forging.

6.6 The wooden handle shall be completely fitted inside the eye and shall be secured by wedges.

7 TESTS

7.1 The marking hammers shall be tested by striking the hammer on a sample of hard wood for at least 100 times. During and after the completion of test, the character shall not show any deformation. The impression created during the test shall be clear and easily readable.

8 WORKMANSHIP AND FINISH

8.1 The forging shall be free from cracks, seams, pits, burrs and other visual defects.

8.2 The handle shall be smooth and shall have a suitable grip.

8.3 The metallic portion shall be painted.

8.4 The wooden handle shall be polished or lacquered.

9 MARKING AND PACKING

9.1 Marking

Each marking hammer shall be marked with the following particulars.

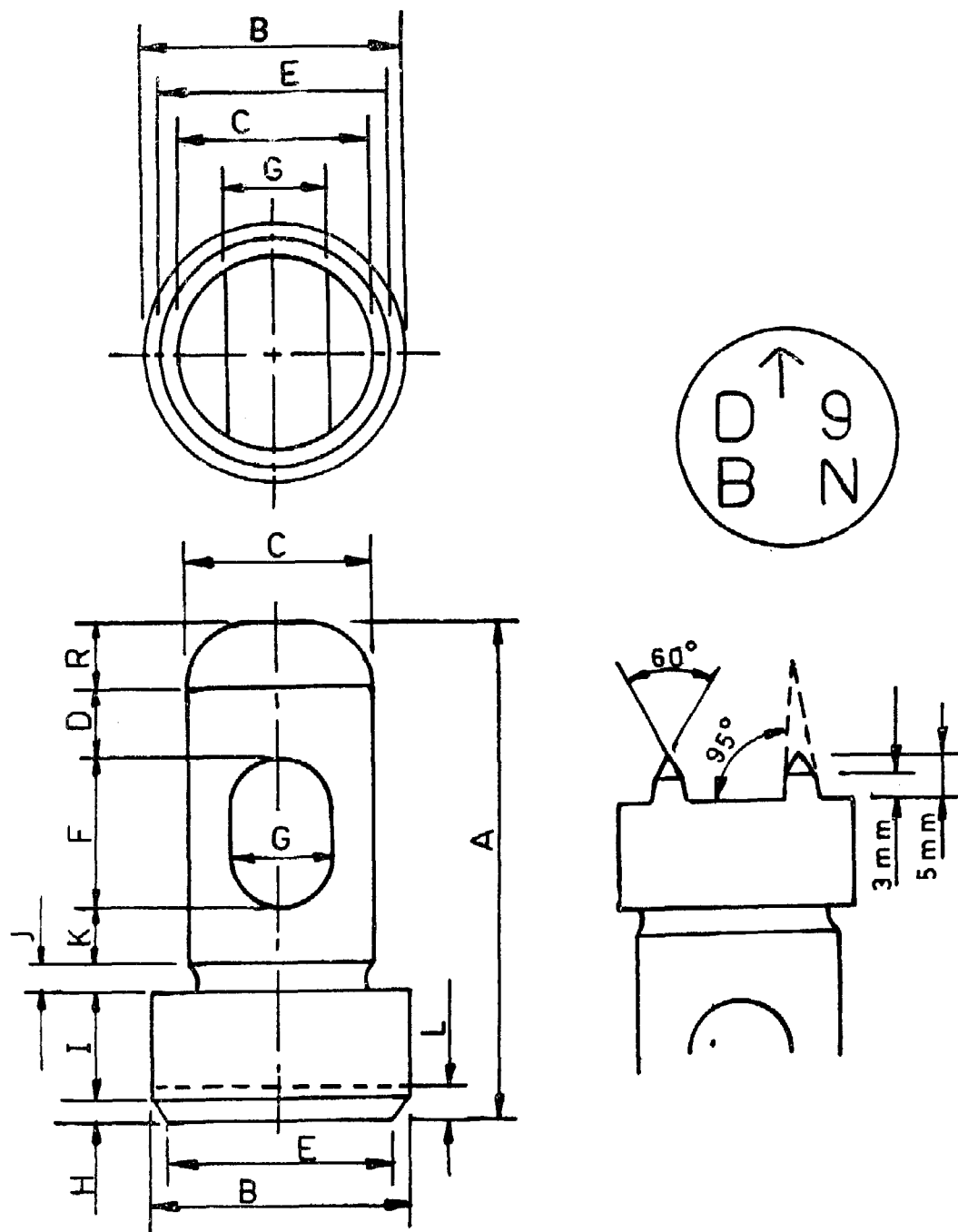
- a) Manufacturers' name or recognized trade mark, if any; and
- b) Batch or code number.

9.2 Packing

The hammers shall be packed as agreed to between the purchaser and the supplier for safe handling in transit and storage.

10 SAMPLING

10.1 In order to ascertain the conformity of the lot, the procedure for sampling inspection as given in IS 2500 (Part 1) : 1983 shall be followed. The inspection level and AQL for various characteristics shall be according to 10.2 and 10.3.



Dimensions of Tree Marking Hammer

(All dimensions in millimetres)

$A = 90$	$F = 28$	$J = 3$
$B = 45$	$G = 20$	$K = 10$
$C = 36$	$H = 3$	$L = 5$
$D = 12$	$I = 22$	$R = 12$
$E = 40$		

FIG. 1 TREE MARKING HAMMER

10.2 For dimensions, workmanship and finish, a single sampling plan with inspection level IV and AQL of 4 percent given in Table 1 and 2 of IS 2500 (Part I): 1983 shall be followed.

10.3 For hardness and other requirements, a single sampling plan with inspection level II and AQL of 4 percent as given in Table 1 and 2 of IS 2500 (Part I): 1983 shall be followed.

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